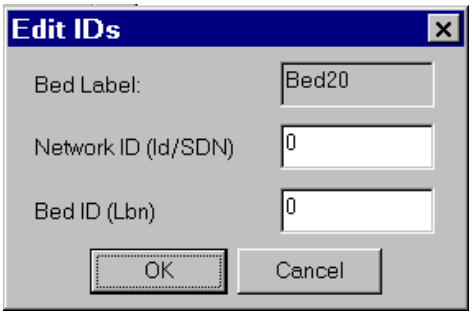
Edit IDs	Edit IDs is for configuring the SDN ID and the LBN ID.  Fields in the Edit IDs window are: • Bed Label - lists the bed label. It is read only. • Network ID (Id/SDN) - indicates the target client bed network ID value. It is either 1 or 2. The default is 0. • Bed ID (LBN) - indicates target client 2-digit bed ID from 1- 24. The default is 0. *Note*—If exporting HL7 output to CareVue, the Id/SDN and Lbn settings must be configured to match the CareVue system. The CareVue system settings must match exactly what is configured in the Information Center or Database Server. • For existing CareVue systems with CMS beds upgrading to IntelliVue Monitors, document the existing CareVue Unit SDN Bed Map page. Enter these settings for each bed label. • For new CareVue systems installed with IntelliVue monitors, continue to assign SDN settings for IntelliVue monitors (id/SDN & Lbn) in the Unit SDN Bed map page.

Procedure The procedure for configuring the **Equipment Setup** window is as follows:

Step 1. Select a Unit to be set up.

Step 2. Select the Label Type to be set up by clicking in the circle preceding the desired type -- **Bed, Telemetry, Monitor**.

Step 3. Remove unwanted Labels. If there are Labels in the Labels field that are not desired, remove them by:

- Click on (highlight) the **unwanted Label** to select it for removal. (A sequence of labels can be selected by clicking on the first label, pressing the keyboard **Shift** key, and clicking on the last label to be removed.)
- Click **Remove** to remove the unwanted labels.

Step 4. Add new Labels.

- Click **Add** to bring up the **Add new labels** window.
- Type in the desired **label prefix** (e.g. Bed, Tel, Mon) in the **Prefix:** box using the keyboard.
- Type in the **first number** (typically 1) of the Label sequence in the **Start with Index:** box.
- Type in the desired **number of labels** with the Prefix entered above in the **Number of labels:** field. Typically this is the number of Beds, Telemetry Equipment, or M3/M4/IntelliVue Monitors in the clinical Unit.

- For Bed Labels, click on the clinical **Unit** where these beds reside from the **Associated with Unit** field. This field is grayed out for Telemetry Equipment and Monitor labels.
- Click **OK** to enter these Labels in the Labels list.

Step 5. Select an icon -- SCC, Switch or Monitor Labels -- in the left column of the Equipment Setup for... field.

If an **SCC** icon is selected, follow the **Setup LBN Procedure** that follows:

If a **Monitor Labels** icon is selected, skip to the **Setup Monitor Procedure**.

If a **Switch** icon is selected, skip to the **Setup Switch Procedure**.

Setup LBN Procedure

Step 1. Assign SDN monitoring Equipment (hardwired and telemetry) on SCC Logical Branch Numbers (LBNs) to Bed Labels as follows:

- Click on (highlight) the first **SCC** in the left column of the **Equipment Setup for Selected SCC** field.
- Click on (highlight) the first **LBN #** in the **LBN** column to activate it for assigning a patient monitor.
- Click **Setup** to bring up the **Map Monitor to LBN #X** window for that LBN #.

Select the type of patient monitor attached to that LBN # -- **Hardwired** or **Telemetry** -- by clicking in the circle preceding it.

– If **Telemetry** was selected, select a Label for that telemetry monitor (e.g. Tel1) in the **Equipment Label** box.

If **Hardwired** was selected, proceed to the following step.

– If this patient monitor is to be assigned a Bed Label, click on (highlight) the Bed Label to be assigned to that patient monitor from the Located at bed list.

If this patient monitor is not to have a bed label, click a check ☑ in the **Setup equipment only** box.

– Click **OK** to enter that monitor and Bed Label assignment in the Equipment Setup for Selected SCC.

Step 2. Repeat Step 6 for each LBN # and SCC in the list.

Setup Monitor Label Procedure

Step 1. Assign M3/M4/IntelliVue Monitor Labels to Bed Labels as follows:

- Click on (highlight) the first **Monitor Labels** icon in the left column of the **Equipment Setup for Monitor Labels** field.
- Click on (highlight) the first **Label #** in the **Label #** column to activate it for assigning a Bed Label.
- Click **Setup Monitor** to bring up the **Map Monitor to Monitor label #X** window for that Label #.
- Click on (select) the first **Monitor Label** in the Label equipment list.

- Click on (highlight) the Bed Label to be assigned to that patient monitor from the Located at bed list.
- Click **OK** to enter that M3/M4/IntelliVue Monitor Label and Bed Label assignment in the Equipment Setup for Monitor Labels field.

Step 2. Repeat Step 8 for each Monitor Label and Bed Label in the Equipment Setup for Monitor Labels field.

Note The **Monitor Label** must also be entered in the Patient Monitor.
- See the **M3/M4 or IntelliVue Patient Monitor User's Guide** for more details.

Setup Switch Procedure

Step 1. Assign M3/M4/IntelliVue Monitoring Equipment on Switch Port Numbers to Bed Labels as follows:

- Click on (highlight) the desired **Switch** in the left column of the **Equipment Setup for Selected Switch** field.
- Click on (highlight) the desired **Port** in the **Port** column to activate it for assigning a patient monitor.
- Click **Setup Monitor** to bring up the **Map Monitor to Port #X** window for that Port #.
- Click on (highlight) the **Bed Label** in the Located at bed: list that the M3/M4/IntelliVue with that Monitor Label will be assigned.
- Click **OK** to enter that M3/M4/IntelliVue Monitor Label and Bed Label assignment in the Equipment Setup for Selected Switch.

Step 2. Repeat Step 10 for each Port # and Switch in the list.

When all patient monitors have been assigned:

Click **Next>** to save changes and advance to the next window.

Bed Config

Bed Config is used for two purposes -- to format Patient Sectors on the Main Screen and to assign patient monitors to Patient Sectors. The **Bed Config** window is shown in Figure 6-16.

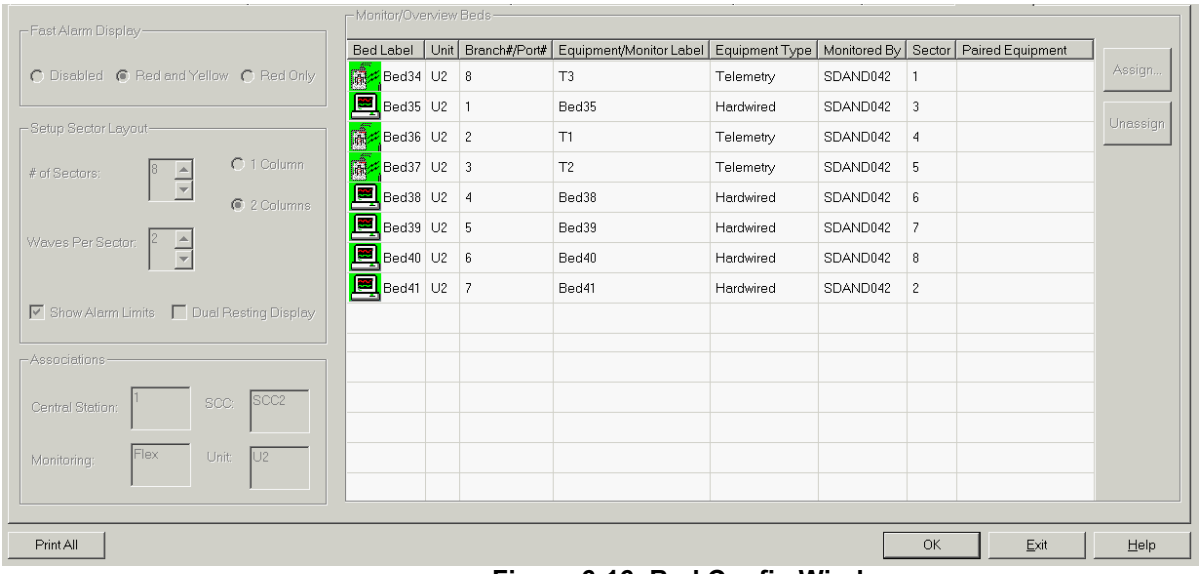


Figure 6-16 Bed Config Window

Description

Fields in Bed Config are:

Field	Description
Fast Alarm Display	Fast alarm strip displays in the Patient Window when the Silence button has been clicked after an alarm has occurred. • **Disabled** means that a fast alarm strip will not display. • **Red and Yellow** means that a fast alarm strip will display for Red and Yellow alarms. • **Red Only** means that a fast alarm strip will display only for Red alarms. Click a ⊙ in the circle preceding the option to select it.
Sector Setup Layout	Controls for formatting the Patient Sectors on the Main Screen. It has the following fields • **# Sectors** - Set the number of Patient Sectors displayed on the device's Main Screen -- **4, 6, 8, 12,** or **16**. This cannot exceed the # of Patients in the Purchased Options field in Device Setup and Support Information. • **Columns** - number of columns of Patient Sectors on the Main Screen. 1 Column is only available for 8 patients or less. Click in the circle ⊙ preceding the desired selection. • **Waves per Sector** - number of monitoring waveforms that appear in Patient Sectors. The number of waves can be **3** for 4 Patient Sectors, **2** for 6 - 12 Patient Sectors, **1** for 16 Patient Sectors on a single display, and **2** for 16 Patient Sectors with Dual Resting Display enabled. • **Show Alarm Limits** - select whether the Heart Rate Alarm Limits set in Alarm Management and Setup will be displayed in Patient Sectors. A check in the box causes the Heart Rate Alarm Limits to be displayed. No check means they will not be displayed. • **Dual resting display** - Selects whether both displays of a dual display Information Center will display Patient Sectors. A check means that Patient Sectors will display on both displays when a Patient Window or All Controls are not active. No check means that Patient Sectors will display on the primary display only. This field is not active if 1 is selected as the # of Displays.

Field	Description
Associations	• **Central Station** - Read Only. **#** of this Information Center -- **1** - **6**. The # of each Information Center on each SCC must be different. Central Station #s already in use will be grayed out and are not selectable. Clicking on any Central Station # changes the # being used for that Information Center. • **SCC** - Read Only. Identifies the SCC supplying patient monitoring data to this device • **Monitoring** - Read Only. Set whether the assignment of patient monitors will be Fixed or Flex – **Fixed** means that assignment of a patient monitor (bedside or telemetry) to a Bed Label is fixed and cannot be changed by the user. This is the Factory Default setting. – **Flex** means that patient monitors (bedside and telemetry) can be assigned to different Bed Labels by the user. These reassignments are made in Sector Setup. • **Unit** - Read Only. Identifies the name of the clinical Unit where the patient monitors for the device selected in Central Station are located

Note Central Station: and SCC: fields are not active (n/a) for M3151 Clients and for Information and Centers without SDN monitors.
SCC and clinical Unit assignments are made in **Network Configuration**.

Warning **If the # of Patients is decreased when beds are assigned to Patient Sectors, a ? appears in the Sector column of Beds assigned to invalid Sectors in Monitor/Overview Beds. A warning message states that these beds will not be monitored or overviewed if they are not reassigned to a valid Patient Sector.**

Note For setups with 8 rows of Patient Sectors and more than 1 Wave per Sector, Show Alarm Limits will automatically be unchecked because there is not sufficient display space for Heart Rate Alarm Limits. Show Alarm Limits is not active for M3/M4 patient monitors because these monitors do not display alarm limits. Show alarm limit will be automatically unchecked, if 8 rows and 1 column (not 2 columns) is selected.

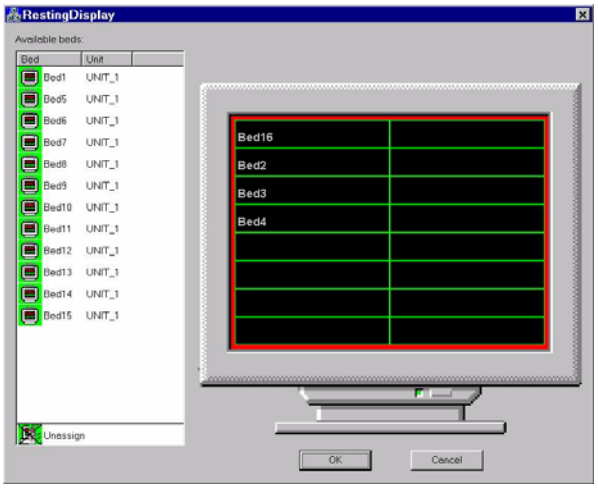
Monitor/Overview Beds displays the assignment of beds to Patient Sectors.

Columns in this field are:

Field	Description
Bed Label	Label assigned to the patient bed where the monitoring equipment is located. An icon to the left of the number indicates whether the monitor is a hardwired, telemetry or wireless unit
Unit	Name of the clinical Unit where the patient monitor is located.
Branch #/Port #	Logical Branch Number (**LBN**) of the SDN branch on the SCC that the patient monitor is connected to or the port number of a switch that M3/M4/IntelliVue Patient Monitors are mapped to
Equip. Label/Monitor Label	Label assigned to the monitoring equipment.

Field	Description
Notes For **hardwired** monitors, Bed Label and Equipment Label are the same. For **telemetry** monitors, Bed Label and Equipment Label are different. For **M3/M4/IntelliVue** monitors, Bed Label and Monitor Label are different.	
Equipment Type	Specifies whether the monitoring equipment is: • **Hardwired** patient monitor fixed to a bed location or a mobile • **Telemetry** monitor that can be assigned to patients from different beds • **M3/M4/IntelliVue** Patient monitor
Monitored by	Name of Information Center that is monitoring this device
Sector	Number of the Patient Sector on the Main Screen where the patient monitoring data is displayed.

Buttons below Monitor/Overview Beds are for assigning beds to Patient Sectors. They do the following:

Button	Description
Assign	**Resting Display** window opens for making and changing bed assignments to Patient Sectors  The **Resting Display** window is for assigning patient Beds to Patient Sectors. It has the following fields. **Available beds** lists the Bed labels and clinical Units that have been associated with patient monitors on this device, but not presently assigned to a Patient Sector. • For **Information Centers** that monitor **M3/M4/IntelliVue patient monitors**, Available beds are those associated with these monitors in **Equipment Setup**, but not presently being monitored by any Information Center. • For **Information Centers** that monitor **SDN monitors**, Available beds are those associated with SDN monitors in **Equipment Setup** that share the same SCC as this device, but not presently being monitored by any Information Center. • For **Information Centers** that monitor both **M3/M4/IntelliVue and SDN monitors**, Available beds are those associated with both M3/M4/IntelliVue and SDN monitors (that share the same SCC) in **Equipment Setup**, but not presently being monitored by any Information Center. • For **Clients**, Available beds are those presently being monitored by an Information Center but not yet assigned to a Patient Sector on this Client. • For **Patient Link,** If there are 12 or less beds configured, only one default CareGroup (#1 Olive) is created, and all Available beds are assigned to this Olive CareGroup. If there are 16 beds configured, two CareGroups (#1 Olive and #2 Teal) are created. In this configuration, beds assigned to sectors 1-8 are assigned to CareGroup #1 and beds assigned to sectors 9-16 are assigned to CareGroup #2. The default attributes of the CareGroup(s) are auto-alarm notification = **Red Alarms** and Overview prompt sound = **enabled**.

Note

If all Patient Sectors have been assigned, clicking Change Sector Assignment brings up the following message.

There are no unassigned sectors left. Please increase the number of sectors if possible, or unassign a sector.

Note A Bed can be overviewed by a maximum of 4 Clients.

To **assign** a bed to a Patient Sector:

- Click on a Bed label in the Available beds list.
- Move the cursor to the desired Patient Sector.
- Click the mouse button when the cursor is over the desired Patient Sector. The Bed label will then appear in that Sector.

Notes

When the cursor moves over a Patient Sector with no bed assigned, it shows a single bed icon.

When the cursor moves over a Patient Sector with a bed already assigned, it shows a 2-bed icon.

If a Bed label is replaced, it will reappear in the **Available beds** list.

To **remove** a bed from a Patient Sector:

- Click on the **Unassign** icon at the bottom of Available beds.
- Move the cursor to the Patient Sector where the Bed is to be removed.
- Click the mouse button and the Bed label in that Patient Sector will be removed and reappear in the Available beds list.

Notes

When the Unassign cursor moves over a Patient Sector with no bed, it shows a circle with a slash.

When the Unassign cursor moves over a Patient Sector with a bed assigned to it, it shows a single bed icon with an X.

- Clicking **OK** stores the bed assignments and returns to the **Bed Config** window where the new assignments appear in the Sector column of the Monitor/Overview Beds field.
- Clicking **Cancel** returns to the **Bed Config** window and no bed assignments have been changed.

Note If Dual Resting Display is checked, the top half of this screen will show the Patient Sectors that will appear on Display 1, and the bottom half, those that will appear on Display 2.

Display 1 indicates the color (**green**) of Patient Sectors on Display 1.

Display 2 indicates the color (**magenta**) of Patient Sectors on Display 2.

Unassign button is for removing a bed from a Patient Sector. To remove a bed:

- Click on the **Bed Label** in the Monitor/Overview Beds field to highlight it for removal.
- Click **Unassign** and that bed is removed.

Procedure The procedure for configuring the **Bed Config** window is as follows:

Step 3. Select the desired **Fast Alarm Display** option -- **Disabled**, **Red and Yellow**, or **Red Only**.

Step 4. Select the correct **Central Station:** # for this device for Information Centers. This should have already been set on the Network Configuration page at the Database Server, or earlier in the configuration on a Information Center without a Database Server.

Step 5. Verify that entries in the **SCC:** and clinical **Unit** fields of Associations are correct.

Step 6. Verify the entry in the **Monitoring:** box is correct for the Unit listed above.

Step 7. Select the correct

# of Patients:
Columns of Patient Sectors
of **Waves Per Sector**

and whether to **Show Alarm Limits** in the Setup Sector Layout fields whether the **Dual Resting Display** option should be enabled.

Note The number of waves can be **3** for 4 Patient Sectors, **2** for 6 - 12 Patient Sectors, **1** for 16 Patient Sectors, and 2 for 16 Patient Sectors with Dual Resting Display enabled.

Step 8. Verify the desired Patient Sector layout (# of Patients and # Columns) in the **Layout preview** display.

Step 9. Click on **Assign** to access the **Resting Display** window.

Step 10. Assign **Beds** from the **Available beds:** field to **Patient Sectors** as follows:

- Click on a **Bed label** in the Available beds list.
- Move the cursor to the desired **Patient Sector**.
- Click the mouse button when the **Bed label** is over the desired Patient Sector. The Bed label will then appear in that Sector. If a Bed label is replaced, it will reappear in the **Available beds**: list.

When Beds have been assigned to all Patient Sectors:

Step 11. Click **OK** to return to the **Bed Config** window.

Step 12. Click **Next>** to commit the changes and advance to the next configuration window.

Report Settings

Report Settings is used to configure the layout of the printed Reports. The **Report Settings** window is shown in Figure 6-17.

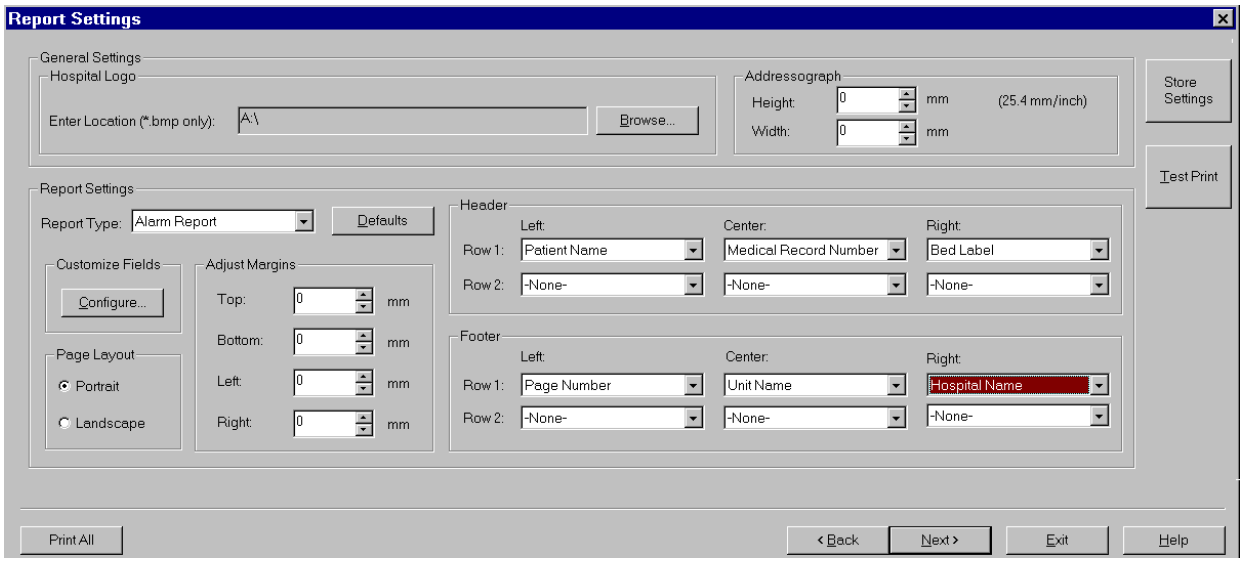


Figure 6-17 Report Settings Window

Description

Fields in General Settings are:

Field	Description
Hospital Logo	Name and location of the bitmap (.bmp) file that can be displayed on the reports.
Addressograph	Specify the dimensions of the bitmap. There is no maximum/minimum limits. A typical size of an addressograph is 30mm x 70mm

Fields in Report Settings are:

Field	Description
Report Type	Lists the names of each of the report types. For every report type, a unique configuration can be given. The list of report types are: • Alarm Report • Bedside Report • Event Report • Event Summary Report • Fast Alarm Report • ST Report • Trend Report • 12 Lead Report • Unit Report • Wave Report
Customize Fields	Specify the additional customized text fields that can be printed out in either the header or footer. A configure button is used to do the customization. When **Configure** is pressed, a Field Setup window opens. Buttons in the Field Setup window are **New Field**, **Delete Field**, and **Edit Field**.
Page Layout	Specify Portrait or Landscape

Field	Description
Adjust Margins	Specify the size of the margins. There are no maximum or minimum limits. The margins are measured from the printer defined area, not the paper edges, the printer defined area is printed on the test page. *Note*— 25mm is adequate for the left margin if hole-punched paper is used.
Header and Footer Labels	Configure what information is to be printed in the header and footer areas. List of available items are: • None • Addressograph • Bitmap • Patient Name (header default) • Medical Record Number (header default) • Bed Label (header default) • Page Number (footer default) • Unit Name (footer default) • Hospital Name (footer default) • Report Name • Print Date & Time

Buttons in Report Settings are

Button	Description
Store Settings	Stores the configured settings
Test Print	Prints a test page of what the configuration looks like *Note*—Test Print only works after network printers have been installed. Use **Test Print** prior to activating the Information Centers (see “Activating the Network/Server System” on page 6-60). Once in monitoring mode, any changes to the Report Settings will require the Database Server/Information Center to be in Configuration mode.